WEST

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DERWENT-ACC-NO: 2002-652632
DERWENT-WEEK: 200270
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TITLE: System and method for constructing music file database and selling music file
by using internet music broadcast program

INVENTOR: SEO, G H

PATENT-ASSIGNEE: SK TELECOM CO LTD (SKTEN)

PRIORITY-DATA: 2000KR-0060282 (October 13, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
KR 2002029686 A	April 19, 2002		001	G06F017/30

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
KR2002029686A	October 13, 2000	2000KR-0060282	

INT-CL (IPC): G06 F 17/30

ABSTRACTED-PUB-NO: KR2002029686A
BASIC-ABSTRACT:

NOVELTY - A music file database construction and music file sale system and method
is provided to construct a music file database by using radio musics and time table
data offered by internet broadcasting stations, and to enable a user to search for
and purchase a desired music file.

DETAILED DESCRIPTION - The method comprises steps of a music service server
monitoring that an internet music broadcasting station broadcasts a music(202), the
server checking if the broadcast music is registered at a music database in the case
that the music broadcasting station broadcasts a music(204, 206, 208), the server
generating a sample music by extracting a part of the music, for example the first
measure or the last measure if the broadcast music is registered(210), and the
server recording extracted separator data, a music title, a singer, a name of the
internet broadcasting station, the broadcast time and others with the sample music
at the music database(212). In a step of checking a music registration, the server
compares separators of the broadcast music with those of the registered music or a
specific measure of the broadcast music with that of the registered music. The user
can search for a desired music file from the music database, request to download the
sample of the desired music file or send a purchase order on the desired music.

ABSTRACTED-PUB-NO: KR2002029686A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/10

DERWENT-CLASS: T01
EPI-CODES: T01-J05B;

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L26: Entry 8 of 28   File: DWPI   Sep 28, 2000

DERWENT-ACC-NO: 2001-158887
DERWENT-WEEK: 200116
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TITLE: Time variable component identifying method of broadcast signal, involves
identifying components of broadcast signal, based on instantaneous value of encoded
time variable information

INVENTOR: POEL, W S

PATENT-ASSIGNEE: ENFORMATICA LTD (ENFON)

PRIORITY-DATA: 1999GB-0006373 (March 20, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 200057586 A2	September 28, 2000	E	011	H04H000/00
AU 200033077 A	October 9, 2000		000	H04H000/00

DESIGNATED-STATES: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES
FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK
MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ
TZ UG ZW

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
WO 200057586A2	March 20, 2000	2000WO-GB01025	
AU 200033077A	March 20, 2000	2000AU-0033077	
AU 200033077A		WO 200057586	Based on

INT-CL (IPC): H04 H 0/00

ABSTRACTED-PUB-NO: WO 200057586A
BASIC-ABSTRACT:

NOVELTY - The time variable information of broadcast signal is encoded into
sub-carrier of broadcast signal. The components of the broadcast signal is
identified, based on the instantaneous value of encoded information. The encoded
signal is then received and the time variable information is extracted from it, and
the selected instantaneous values of encoded information are stored.

DETAILED DESCRIPTION - The broadcast signal is transmitted by electromagnetic
radiation and the time variable information is superposed on the transmitted signal.
The time variable information is broadcast by infrared or electromagnetic radiation.
The time variable component comprises a musical or video pattern, and the time
variable information comprises a unique identifying code for the patterns. An
INDEPENDENT CLAIM is also included for selected information items storage apparatus.

USE - For identifying components of broadcast signals, especially for identifying
artist, group, band orchestra and particular recording of broadcast music signals.

ADVANTAGE - Enables identifying <u>broadcast</u> signal component and purchasing of <u>recording</u> medium stored with corresponding <u>broadcast</u> signals. The time variable information is stored or transmitted simultaneously with an acoustic signal which is immediately audible by the listener, without the need of any kind of receiver. Since databases can be maintained centrally and accessed via internet from the listener's computer, the <u>recording</u> medium containing <u>music</u> can be purchased through the internet, or <u>music</u> data can be downloaded from the internet reliably.

ABSTRACTED-PUB-NO: WO 200057586A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/0

DERWENT-CLASS: W02
EPI-CODES: W02-D; W02-E01B1; W02-F05C;

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L19: Entry 2 of 4   File: DWPI   Sep 27, 1996

DERWENT-ACC-NO: 1996-445402
DERWENT-WEEK: 199645
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TITLE: Recording, distribution and re-transmission device for broadcast
advertisement - uses memory to record transmitted advertisement with associated
pre-recorded access control code and determines if advertisement should be
re-transmitted

PATENT-ASSIGNEE: FATHALLAH N (FATHI)

PRIORITY-DATA: 1995FR-0003651 (March 24, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
FR 2732146 A1	September 27, 1996		009	G09F027/00

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
FR 2732146A1	March 24, 1995	1995FR-0003651	

INT-CL (IPC): G09 F 27/00; H04 N 7/16

ABSTRACTED-PUB-NO: FR 2732146A
BASIC-ABSTRACT:

The device includes a transmitter (E) which transmits an advertising message having
an associated access control code. A controller (12) compares (14) the access code
sent by the transmitter with a pre-recorded code held in memory and records the
message only if the codes are identical. The message is then rebroadcast (10) on
actuating the re-transmission device (T).

When a new message is transmitted which has the same access code, it replaces the
previous message. A microcontroller (13) can store a number of codes from different
subscribers and can send messages randomly or in a pre-established order either as
demanded or at regular intervals.

USE/ADVANTAGE - E.g. radio or television broadcasting. Allows communication with all
or sub-group of viewers. Selected language can be used. Low cost method of reaching
wide audience using single channel small number of times.

ABSTRACTED-PUB-NO: FR 2732146A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/1

DERWENT-CLASS: P85 W02 W04
EPI-CODES: W02-F09; W04-N05G5;

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聴、ダウンロードによる番組の購入等の有料利用が可能となる。

【００２０】なお、請求項７の発明においては、請求項６の発明における時分割多重化（ＴＤＭ）を行う上記多重化手段１０に代えて、周波数分割多重化（ＦＤＭ）を行う多重化手段を採用している。

【００２１】前記端末側には、サブマイクロコンピューター３０、リアルタイムで鑑賞するか、この発明の受信システムにより鑑賞するかの何れかを選択してセットを行うための切替部４０、検波部５０、ＭＰＥＧ伸張部６０、音声・映像出力部７０により構成された独立した複数の受信コントローラ８０を、前記カスタマーセンター側の中央演算処理装置（ＣＰＵ）に夫々接続するように設ける。

【００２２】このデジタル放送受信システムによれば、カスタマーセンター側において端末側の多数のアクセスに対応して同時アクセスの処理が可能になる。各視聴者の鑑賞方法については、先の基本的なデジタル放送受信システムに準ずる。

【００２３】上記した基本的なデジタル放送受信システムは、視聴者から予約された特定の番組を有償で提供するという新規な販売形態としても利用可能である。即ち、カスタマーセンターからの指令信号によって、視聴者により予約された１つの番組を前記記録手段によって格納した後に書き換え機能を停止する。ついで、その番組が鑑賞された場合には、次の放送中の番組に自動的に書き換えを行う。これにより、カスタマーセンターは、多数のアクセス（視聴希望者）に対応して予約番組を有償で効率よく一斉に提供することができる。

【００２４】また、多数の受信端末への一斉選別放送配信システムによれば、ユーザー識別符号（ＩＤ）を保有

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する受信者に対して予約番組の視聴、回数を限定したレンタル視聴、メモリーカード等へのダウンロードによる番組の購入等の有料利用を可能とし、それらの利用形態に応じて予約管理、課金に関する銀行等への自動振替アクセス、伝票発行管理等の作業を能率的に行うことができる。

【００２５】なお、上述した発明は衛星を利用したデジタル放送通信を想定しているが、超高速、大容量の光ファイバーによる放送通信を利用することも可能である。
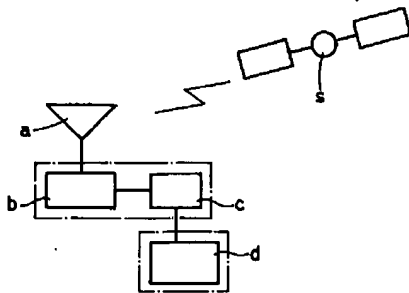
【図面の簡単な説明】

【図１】基本的なデジタル放送受信システムの構成を示す説明図

【図２】受信コントローラの要部を説明するブロック図

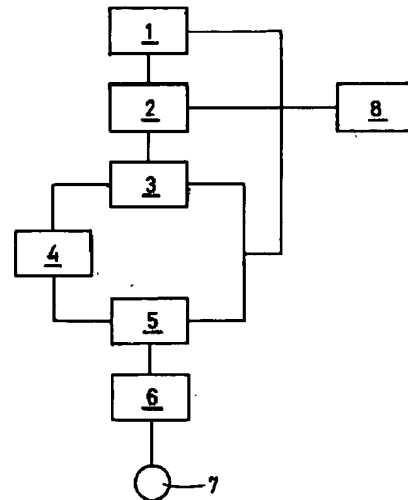【図３】多数のアクセスに対応して同時アクセスの処理可能なプログラムで起動する音声映像処理用マイクロコンピューターを備えたデジタル放送受信システムを説明する概要図

【符号の説明】

a→アンテナ　b→受信コントローラ　d→ディスプレー

s→放送用衛星　w→アンテナ

１→検波部　２→番組検知手段　３→分配器　４→記録手段　５→切替部

６→ＭＰＥＧ伸張部　７→音声・映像出力部

８→音声映像処理用マイクロコンピューター

１０→多重化手段　２０→音声・映像圧縮記録手段

ＣＰＵ→中央演算処理装置

３０→サブマイクロコンピューター　４０→切替部　５０→検波部

６０→ＭＰＥＧ伸張部　７０→音声・映像出力部　８０→受信コントローラ

【図１】

【図２】

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L19: Entry 1 of 1   File: JPAB   Nov 30, 2000

PUB-NO: JP02000332634A
DOCUMENT-IDENTIFIER: JP 2000332634 A
TITLE: DIGITAL BROADCASTING RECEPTION SYSTEM AND SIMULTANEOUS SELECTION BROADCASTING
DISTRIBUTION SYSTEM TO MANY RECEPTION TERMINALS

PUBN-DATE: November 30, 2000

INVENTOR-INFORMATION:
NAME   COUNTRY
KONDO, TADAMI

ASSIGNEE-INFORMATION:
NAME   COUNTRY
NIPPON VIDEO CENTER:KK

APPL-NO: JP11143568
APPL-DATE: May 24, 1999

INT-CL (IPC): H04 B 1/16; H04 H 1/00; H04 N 5/765; H04 N 7/173

ABSTRACT:

PROBLEM TO BE SOLVED: To enable appreciation from the start even if a program being
broadcast is in the middle by providing a recording means which begins to store a
next program from an initial part, successively deletes the following program from
the initial part and can normally read the initial part of a program being
broadcast.

SOLUTION: A reception controller is provided with a program detection means 2 which
respectively detects and normally reads an initial part of plural programs being
digital broadcast by a broadcasting satellite. Then, by completion of a previous
program stored by a recording means 4, it is possible to start store the next
program from an initial part and to successively delete the following program from
the initial part. In this way, a viewer can appreciate a specific program from the
initial part by a display by selecting an arbitrary program among plural programs
being broadcast. Therefore, it is possible for a receiver to appreciate the program
being program from the start even when it is in the middle of the program.

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L49: Entry 41 of 50   File: JPAB   Jul 30, 1988

PUB-NO: JP363184946A
DOCUMENT-IDENTIFIER: JP 63184946 A
TITLE: VIDEO TAPE RECORDER CONTROLLER

PUBN-DATE: July 30, 1988

INVENTOR-INFORMATION:
NAME   COUNTRY
NAKAMOTO, SHINYA

ASSIGNEE-INFORMATION:
NAME   COUNTRY
NEC HOME ELECTRONICS LTD

APPL-NO: JP62017824
APPL-DATE: January 27, 1987

US-CL-CURRENT: 386/46
INT-CL (IPC): G11B 15/02; G05B 19/02; G11B 15/02

ABSTRACT:

PURPOSE: To perform the video recording of only a corresponding television program
for a set broadcasting time as reserved by setting data on the theme music of the
television program to be video-taped previously, comparing it with the input of a
television signal based upon the actuation of a reservation timer, and performing
the video recording of the television program only when the both coincide with each
other.

CONSTITUTION: The data on the theme music of the television program to be video-
taped is set previously in a memory 12. A speech recognition device 13 reads out
and inputs the theme music of the corresponding program from the memory 12 and also
inputs the television signal of the corresponding channel, and the device compares
the both with each other and sends out a program start detection signal only when
recognizing the corresponding theme music to start a subtimer 14. Then the video
recording processing part 15 of a VTR is operated to start the video recording.
Consequently, only the television program to be video-taped is recorded for a set
broadcasting time as reserved.

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L49: Entry 14 of 50   File: JPAB   Feb 24, 1998

PUB-NO: JP410055656A
DOCUMENT-IDENTIFIER: JP 10055656 A
TITLE: RECEIVED INFORMATION RECORDING SYSTEM

PUBN-DATE: February 24, 1998

INVENTOR-INFORMATION:
NAME   COUNTRY
MATSUMOTO, YOSHIO

ASSIGNEE-INFORMATION:
NAME   COUNTRY
SONY CORP

APPL-NO: JP08225823
APPL-DATE: August 8, 1996

INT-CL (IPC): G11 B 27/034; H04 H 1/00

ABSTRACT:

PROBLEM TO BE SOLVED: To automatically sort and record the desired musical programs
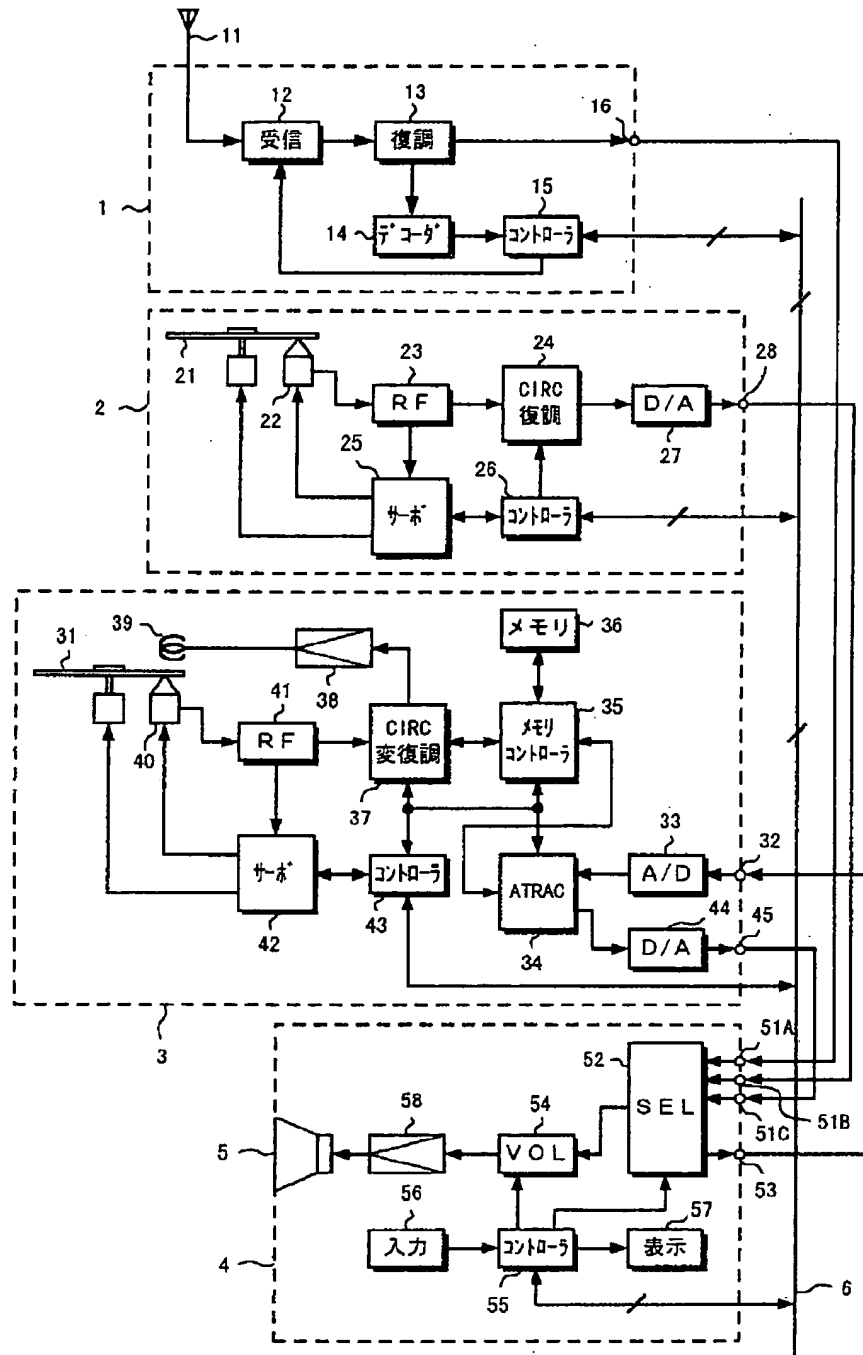or the programs of desired artists from the broadcast of music.

SOLUTION: The FM tuner 1 receives FM multiplexed text broadcasting and decodes text
information from the received broadcasting signals using a multiplexed text decoder
14. Desired musical programs or the names of artists are inputted in advance and
these programs and artists' names are compared with those obtained by the FM
mutiplexed text broadcasting. When they agree mutually, recording is started using
a MD(magnetic drum) recorder 3. By this, desired musical programs and the music of
desired artists are sorted and automatically recorded.

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【図１】

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L49: Entry 9 of 50   File: JPAB   Nov 7, 2000

PUB-NO: JP02000312323A
DOCUMENT-IDENTIFIER: JP 2000312323 A
TITLE: PROGRAM RESERVATION VIDEO RECORDING APPARATUS

PUBN-DATE: November 7, 2000

INVENTOR-INFORMATION:
NAME   COUNTRY
HONMA, JUNICHI

ASSIGNEE-INFORMATION:
NAME   COUNTRY
NEC VIEWTECHNOLOGY LTD

APPL-NO: JP11119480
APPL-DATE: April 27, 1999

INT-CL (IPC): H04 N 5/76; G11 B 15/02

ABSTRACT:

PROBLEM TO BE SOLVED: To provide a program reservation video recording apparatus
that retrieves a rebroadcast program from an EPG, automatically sets video
recording reservation and obtains a best video recording result.

SOLUTION: The apparatus comprises a device 100 receiving and video- recording a
broadcast including an EPG that is provided with a reception monitor means 150 and
a power supply monitor means 151. On the occurrence of a disturbed image or a low
reception level disabling display of an image through the monitor of a reception
level of a tuner during video recording of a reserved program or when part or all
of a program cannot be recorded due to a power failure or the like, apparatus
retrieves a rebroadcast of the same program from the EPG. When the rebroadcast
program is in existence, the system automatically reserves the rebroadcast data and
time for video recording. Furthermore, in the case that a random access video
recorder is adopted for a video recording section 102, the video recording state of
first recording is compared with that of retaken recording and the video recording
which is worse can be eliminated.

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L49: Entry 25 of 50   File: JPAB   Apr 9, 1993

PUB-NO: JP405089558A
DOCUMENT-IDENTIFIER: JP 05089558 A
TITLE: IMAGE RECORDER

PUBN-DATE: April 9, 1993

INVENTOR-INFORMATION:
NAME   COUNTRY
NISHIUCHI, YASUHIRO

ASSIGNEE-INFORMATION:
NAME   COUNTRY
FUJITSU GENERAL LTD

APPL-NO: JP03251005
APPL-DATE: September 30, 1991

US-CL-CURRENT: 360/79
INT-CL (IPC): G11B 15/02; G11B 15/02; H04N 5/782

ABSTRACT:

PURPOSE: To execute the timer video recording at the start of broadcasting of the
pertinent program when a broadcasting time of the continuous broadcasting program
set on the timer video recording is delayed.

CONSTITUTION: A sound signal, etc., from a signal input part 1 are inputted in an
A/D conversion part 2, properly sampled by a signal from a setting part 3 and
converted to a digital signal corresponding to the signal amplitude. The signal is
stored in a memory part 4. When a sound signal, etc., of a television broadcasting,
etc., is inputted from the signal input part, the signal is converted into a
digital signal by the A/D conversion part, inputted in a discrimination part 5,
compared with the data read out from the memory part through a control part 8, and
the timer video recording is stopped through a VTR control part 6, when it is less
than the desired coincidence factor and the timer video recording is started when
it is more than the desired coincidence factor.

(51)Int.Cl.⁵	識別記号	庁内整理番号		FI	技術表示箇所
G11B 15/02	328 S	8022-5D			
	355	8022-5D			
H04N 5/782		Z	7916-5C		

審査請求　未請求　請求項の数3（全 5 頁）

(71)出願人　000006611
　　株式会社富士通ゼネラル
　　神奈川県川崎市高津区末長1116番地
(72)発明者　西内　康弘
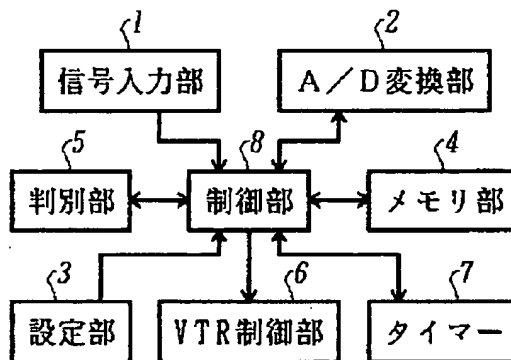　　川崎市高津区末長1116番地　株式会社富士
　　通ゼネラル内

(54)【発明の名称】　画像記録装置

(57)【要約】

【目的】　タイマー録画に設定した連続放送番組の放送時間が繰下げられた場合、当番組の放送開始にてタイマー録画を行う。

【構成】　信号入力部1よりの音声信号等はA／D変換部2に入力し、設定部3よりの信号にて適宜にサンプリングし、信号振幅に応じたディジタル信号に変換する。この信号はメモリ部4に記憶される。そして、テレビジョン放送等の音声信号等が信号入力部より入力したとき、この信号をA／D変換部でディジタル信号に変換し、判別部5に入力し、制御部8を介しメモリ部より読み出したデータと比較し、所要の一致率以下の場合、VTR制御部6を介しタイマー録画を停止し、所要の一致率以上となったときタイマー録画を開始する。

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L49: Entry 15 of 50   File: JPAB   Feb 13, 1998

PUB-NO: JP410042247A
DOCUMENT-IDENTIFIER: JP 10042247 A
TITLE: AUTOMATIC IMAGE RECORDER

PUBN-DATE: February 13, 1998

INVENTOR-INFORMATION:
NAME   COUNTRY
OKITSU, HIROMI

ASSIGNEE-INFORMATION:
NAME   COUNTRY
YAMAHA CORP

APPL-NO: JP08192215
APPL-DATE: July 22, 1996

INT-CL (IPC): H04 N 5/91; G11 B 15/087; H04 N 5/907

ABSTRACT:

PROBLEM TO BE SOLVED: To provide an automatic image recorder capable of
automatically image- recording a weather forecast program or the like by simple
image recording setting and immediately viewing the latest weather forecast or the
like at any time.

SOLUTION: For TV broadcasting received by a TV antenna 1, the video signals of the
channel of the weather forecast program to be image-recorded are taken out in a TV
tuner 2. The video signals are converted to digital signals in an A/D converter 4,
tentatively stored in an image memory 5, compressed in a compression/expansion part
6 and successively recorded in a moving image recorder 7. At this point, whether or
not a broadcasting image stored in the image memory 5 is equal with a key image
stored in a key image memory 9 as the same image every time in the weather forecast
program is compared. When both are equal, since it is considered that the program
to be image-recorded is detected and the subscribing of moving image data from a
recording position tracing back from the broadcasting image at the detection of the
program to be image-recorded for the time stored in a RAM 14 to the end of image
recording is inhibited, a prescribed program is automatically image-recorded. Also,
since the moving image recorder 7 comprises the RAM or the like, the data can be
immediately read.

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L49: Entry 10 of 50   File: JPAB   Mar 31, 2000

PUB-NO: JP02000090509A
DOCUMENT-IDENTIFIER: JP 2000090509 A
TITLE: VIDEO RECORDING DEVICE

PUBN-DATE: March 31, 2000

INVENTOR-INFORMATION:
NAME   COUNTRY
SATO, YOSHIHIRO

ASSIGNEE-INFORMATION:
NAME   COUNTRY
NEC HOME ELECTRONICS LTD

APPL-NO: JP10260754
APPL-DATE: September 16, 1998

INT-CL (IPC): G11 B 15/02

ABSTRACT:

PROBLEM TO BE SOLVED: To provide a video recording device capable of recording a
video without shifting a video recording start position even when the broadcasting
time of a program to be recorded is delayed.

SOLUTION: A program start image S2 not changed at every previously recorded
broadcast is reproduced by a video recorder 6 and stored in an image memory 3
through a video switch SW1 and an A/D conversion circuit 2, and when it arrives at
a set time, and a timer video recording function is operated, a tuner 1 receives a
broadcast channel, and a video recording control part 5 starts the video recording
by the video recorder 6, and image compares the image data stored in the image
memory 3 with the image data of a video signal S1 received with the tuner 1 by an
image comparison part 4, and when the matched image data are detected, the video
recording control part 5 judges that the broadcasting time of the program is
performed as the program to video record the program by the video recorder 6 until
a set broadcast end time.

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ダ6のタイマ録画設定時に、録画したい番組の放送チャンネル，放送予定時間，録画したい番組にのみ使われる番組の始まりにあるオープニングタイトルやオープニングテーマ及びタイトル画面といった番組開始の識別ができ、放送毎に変化しない番組開始画像S2を画像メモリ3に記憶させる。

【0014】また、画像メモリ3への記憶は、予め録画した放送毎に変化しない番組開始画像S2をビデオレコーダ6にて再生し、ビデオスイッチSW1及びA／D変換回路2を経由して画像メモリ3に記憶させ、図2に示すように、設定した時刻に達してタイマ録画機能が働くと、チューナー1が設定した放送チャンネルを受信し、録画制御部5がビデオレコーダ6にて録画を開始させ（a1）、放送開始予定時間から所定時間内に番組開始画像S2が現れなければ放送時間が変更されていると判断できる時間、例えば記憶させた番組開始画像S2が現れる時間にタイマの時間精度を加味した時間を番組開始画像検出時間として、画像メモリ3に記憶させた画像データとチューナで受信しているビデオ信号S1の画像データとを画像比較部4で画像比較を開始する（a2）。

【0015】この画像比較部4は、チューナ1からビデオスイッチSW1を経由してA／D変換回路2で得られた画像データと画像メモリ3の画像データとを比較し、放送開始画像検出時間内に一致する画像データが現れたことが検出できたら（a3）、録画制御部5は番組の放送時間は予定どおりに行われていると判断し、設定されている放送終了時間まで録画終了を待つ。

【0016】一方、放送開始画像検出時間内に一致する画像データの検出がなかった場合、番組の放送時間が遅れたものと判断し、まず録画を停止し（a5）、ビデオレコーダ6の記録位置を録画開始（a1）した時の位置までリワインドし（a6）、チューナ1で受信しているビデオ信号S1の画像データと画像メモリに設定した画

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像データとの比較一致が検出されるまで待機し、目的の番組が放送されるの待ち（a7）、一致を検出した時点から録画を開始し（a8）、録画を開始した時刻と設定された時刻から録画終了時間を修正（a9）して録画終了を待つ。

【0017】

【発明の効果】以上説明したように、本発明のビデオ録画装置によれば、画像比較部で番組開始画像データと実際に放送されている画像データとを比較することにより、所望の番組が放送されているかを判断し、遅れた場合は同じ方法で所望の番組が放送されるのを待つため、録画予約した番組の放送時間が予定の時間より遅れたとしても、録画位置がずれることなく録画でき、かつ放送されるビデオ信号そのものを識別するため、テレビ放送局側には何ら設備を必要としないで実現できるとともに、放送信号に他の信号を重畳できないような配給手段による放送でも適用できる効果がある。

【図面の簡単な説明】

【図1】本発明の一実施の形態によるビデオ録画装置のブロック構成図である。

【図2】本発明の一実施の形態によるビデオ録画装置の動作を示すフローチャートである。

【符号の説明】

1　チューナ

2　AD変換回路

3　画像メモリ

4　画像比較部

5　録画制御部

6　ビデオレコーダ

SW1　AD変換回路（ビデオスイッチ）

S1　ビデオ信号（チューナから送出された番組放送）

S2　ビデオ信号（オープニングタイトルもしくはオープニングテーマ）

【図1】